

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended):      An apparatus for detecting finger-motion in a wireless manner comprising:

    a finger-motion detecting unit, which is configured to be attached to a user's finger, is operated using a wireless power signal and is configured in the form of a switch, and is adapted to generate a finger-motion signal when the switch is turned on;

    a finger-motion signal transmitting unit, which is operated using the wireless power signal, receives the finger-motion signal provided from the finger-motion detecting unit, modulates the finger-motion signal to have information on which finger is moved, and transmits the modulated finger-motion signal in a wireless manner; and

    a finger-motion signal receiving unit, which outputs the wireless power signal and receives and reads the modulated finger-motion signal provided from the finger-motion signal transmitting unit to determine which finger is moved,

wherein the finger-motion signal transmitting unit and the finger-motion signal receiving unit are configured to be attached to the user's hand.

2. (previously presented): The apparatus of claim 1, wherein the finger-motion signal transmitting unit includes:

a coil unit which generates a predetermined amount of power using the wireless power signal, and outputs the modulated finger-motion signal in a wireless manner; and

a control unit which is driven by the predetermined amount of power, and is adapted to store a finger-motion signal inputted from the finger-motion detecting unit, and convert the finger-motion signal into the modulated finger-motion signal.

3. (original): The apparatus of claim 2, wherein the control unit converts an alternating current power generated by the coil unit into a direct current power to generate the predetermined amount of power.

4. (original): The apparatus of claim 2, wherein the control unit modulates the finger-motion signal into a finger-motion signal having a predetermined frequency, depending on which finger is moved, and outputs the modulated finger-motion signal.

5. (previously presented): The apparatus of claim 2, wherein the coil unit is configured to be wound about a finger whose motion is to be detected, and the control unit is configured to be positioned on top of the finger in the form of a chip.

6. (canceled).

7. (previously presented): The apparatus of claim 1, wherein the switch is configured to be mounted on a predetermined joint of a the user's finger, and is adapted to generate the finger-motion signal when the switch is turned on by user flexing a joint.

8. (previously presented): The apparatus of claim 1, wherein the switch is configured to be mounted on an end of a the user's finger, and is adapted to generate the finger-motion signal when the switch is turned on by a user tapping with the finger.

9. (previously presented): The apparatus of claim 1, wherein the switch is configured to be installed between a user's adjacent fingers, and is adapted to generate the finger-motion signal when a first finger, on which the switch is installed, and a second finger, adjacent to the first finger, come in contact with each other and the switch is turned on.

10. (previously presented): The apparatus of claim 1, wherein the switch is configured to be installed on a the user's finger, and is adapted to generate the finger-motion signal when the finger, on which the switch is installed, and the thumb come in contact with each other and the switch is turned on.

11. (currently amended): A method for detecting finger-motion in a wireless manner comprising:

(a) converting a predetermined wireless power signal into a predetermined amount of power;

(b) generating a finger-motion signal when a switch installed on a user's finger is turned on using the predetermined amount of power;

(c) receiving the finger-motion signal, modulating the finger-motion signal to have information on which finger is moved, and transmitting the modulated finger-motion signal in a wireless manner; and

(d) receiving and reading the modulated finger-motion signal and determining which finger is moved,

wherein the predetermined wireless power is provided by a finger-motion signal receiving unit, and the steps (c) and (d) are performed by a finger-motion transmitting unit and the finger-motion signal receiving unit, respectively, both of which are configured to be attached to the user's hand.

12. (original): The method of claim 11, wherein the step (a) includes converting an alternating current power induced by the wireless power signal into a predetermined amount of power by rectifying the alternating current power.

13. (original): The method of claim 11, wherein the step (c) includes modulating the finger-motion signal into a finger-motion signal having a predetermined frequency, depending on which finger is moved, and outputting the modulated finger-motion signal in a wireless manner.

14. (canceled).

15. (previously presented): The method of claim 11, wherein the switch is mounted on a predetermined joint of the user's finger, and is adapted to generate a finger-motion signal when the switch is turned on by user's flexing the joint.

16. (previously presented): The method of claim 11, wherein the switch is mounted on the end of the user's finger, and is adapted to generate a finger-motion signal when the switch is turned on by user's tapping on the floor with the finger.

17. (previously presented): The method of claim 11, wherein the switch is mounted between adjacent fingers, and is adapted to generate a finger-motion signal when a first finger, on which the switch is mounted, and a second finger, adjacent to the first finger, come in contact with each other and the switch is turned on.

18. (previously presented): The method of claim 11, wherein the switch is mounted on the user's finger, and is adapted to generate a finger-motion signal when the finger, on which the switch is mounted, and the thumb come in contact with each other and the switch is turned on.

19. (new): The apparatus of claim 2, wherein the control unit consists of a radio frequency identification (RFID) chip.

20. (new): The method of claim 13, wherein the modulating of the finger-motion signal into the finger-motion signal is performed using a radio frequency identification (RFID) chip.